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PN - JP4193742 A 19920713
 PD - 1992-07-13
 PR - JP19900327475 19901127
 OPD - 1990-11-27
 TI - MANUFACTURE OF POROUS CRYSTALLIZED GLASS
 IN - KOMATSUDANI SHIYUNSUKE; HIBUYA TAKEHIRO
 PA - NIPPON ELECTRIC GLASS CO
 IC - A61F2/28 ; A61L27/00 ; C03C10/02 ; C03C10/04

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TI - Porous crystallised glass mfr. for filling bones - by impregnating organic three-dimensional porous body with slurry of glass powder, drying, heating to remove body and binder, sintering and crystallising
 PR - JP19900327475 19901127
 PN - JP4193742 A 19920713 DW199234 C03C10/04 004pp
 PA - (NIUM) NIPPON ELECTRIC GLASS CO
 IC - A61F2/28 ; A61L27/00 ; C03C10/02 ; C03C10/04
 AB - J04193742 Porous crystallised glass is made by impregnating a slurry comprising glass powder having compsn. (by wt.) 22-50% SiO₂, 8-20% Fe₂O₃, 20-53% CaO, 1-16% MgO, 0.1-2% F₂, 0-8% Al₂O₃ and 0-5% B₂O₃, water and a binder, into an organic porous body having a three dimensional network, drying heat treating to burn and remove the organic porous body and the binder and sintering and crystallising.
 - USE - Used for filling lacked bones. High mechanical strength(Dwg0/0)
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 IN - KOMATSUDANI SHIYUNSUKE; other 21
 PA - NIPPON ELECTRIC GLASS CO LTD
 TI - MANUFACTURE OF POROUS CRYSTALLIZED GLASS
 AB - PURPOSE: To obtain a porous crystallized glass having excellent strength, etc., suitable to use for prosthesis of broken part of bone by mixing the specific composition of glass powder, water and a binder, impregnating this into an organic porous body having a three dimensional network structure and executing heat treatment, sintering and crystallization.
 - CONSTITUTION: The glass powder having the composition by wt.% of 22-50% SiO₂, 8-30% P₂O₅, 20-53% CaO, 1-16% MgO, 0.1-2% F₂, 0-9% Al₂O₃ and 0-5% B, is manufactured. Successively, this glass powder is mixed with water and a binder to make a slurry and is impregnated into an organic porous body (e.g. urethane foam) having a three dimensional network structure. Further, after drying, the heat treatment is executed to burn and remove the organic porous body and binder. Further, the glass

none

none

none

powder is sintered, and by crystallizing, the objective porous crystallized glass having the three dimensional network structure, is obtd.

I - C03C10/04 ;A61F2/28 ;A61L27/00 ;C03C10/02.

none

none

none